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UNITED STATES AIR FORCE

OGGPATIONAL SURVEY REPORT

ELECTRONICS PRINCIPLES INVENTORY (EPI).

AIRCRAFT CONTROL AND WARNING (AC & W)
RADAR CAREER LADDER

AFSC 303X2 AFPT 90-XXX-222

FEBRUARY 1981

OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT CENTER
AIR TRAINING COMMAND

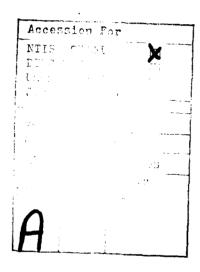
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PREFACE

This report presents the preliminary results of an Air Force Electronics Principles Survey of the Aircraft Control and Warning (AC & W) Radar career ladder (AFSC 303X2). The project was undertaken at the request of Mr. James R. Haupt, Training Manager, Keesler AFB, MS. Authority for conducting electronics principles inventories is contained in AFR 35-2. Computer printouts from which the report was produced are available for use by operating and training officials.

The Electronics Principles Inventory (EPI) was originally developed by Mr. Hendrick W. Ruck and Major Thomas J. O'Conner in 1976. It was revised and updated by Mr. James L. Slovak, Inventory Development Specialist, and Captain Frederick B. Bower, Jr., Occupational Survey Analyst, in 1979.

Captain Michael D. Hill and Mr. Guy B. Cole analyzed the data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Jimmy L. Mitchell, Chief, Airman Career Ladders Analysis section, Occupational Analysis Branch, USAF Occupational Measurement Center, Randolph AFB, Texas 78148.

Copies of this report are available to air staff sections, major commands, and other interested training and management personnel upon request to the USAF Occupational Measurement Center, attention to the Chief, Occupational Analysis Branch (OMY), Randolph AFB, Texas 78148.

This report has been reviewed and is approved.

BILLY C. McMASTER, Col, USAF Commander USAF Occupational Measurement Center WALTER E. DRISKILL, Ph.D. Chief, Occupational Analysis Branch USAF Occupational Measurement Center

ELECTRONIC PRINCIPLES INVENTORY REPORT AIRCRAFT CONTROL AND WARNING (AC & W) RADAR CAREER LADDER (AFSC 303X2)

INTRODUCTION

This is a preliminary report of the Electronic Principles Survey of the Aircraft Control and Warning (AC & W) Radar career ladder (AFSC 303X2). It was completed by the Occupational Analysis Branch, USAF Occupational Measurement Center in February 1981. This preliminary report is intended primarily to provide an overview of electronic principles data by skill levels for immediate use by technical training school personnel. A more comprehensive display of the electronic principles data will be provided in a follow-on report to be published in a few months.

Purpose

The aim of the electronic principles survey program is to provide reliable data on the extent electronic fundamentals training is actually used in the performance of various Air Force jobs.

General Background

The EPI is a knowledge based job inventory which identifies the range of electronic principles personnel must understand to perform any electronics oriented job. Training managers can use EPI data in conjunction with OSR data to determine precisely what specialists do and what electronic principles they employ on the job. By using EPI and OSR data in this manner, training managers satisfy one of the most important aspects of the instructional systems development (ISD) process:

Determine what specialists do on the job before developing a course to train individuals to perform the job.

The USAF Occupational Measurement Center provides job performance data to training personnel in the form of occupational survey reports and training extracts. Such data are presented in task statements which are quantified according to percent members performing, percent time spent, task difficulty, and training emphasis. This task statement data provides a very precise picture of the kinds of functions personnel in a specific AFSC or shred actually perform at a specific point in time. If OSR data is properly applied, it can be a powerful tool in the design of training content.

However, OSR task statements are difficult to translate into knowledge requirements. This is especially true of tasks which require some degree of electronic knowledge. Prior to the development of the EPI, training managers and command representatives had to rely on subjective interpretations of task statements to arrive at the kinds of knowledge required to perform electronic oriented tasks. This requirement of a more objective criteria for determining the amount of electonic knowledge necessary to perform the job resulted in the development of the EPI.

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History

The initial request to develop a method of determining electronic fundamentals used on the job was made by Major General Charles G. Cleveland, the Deputy Chief of Staff, Technical Training, Air Training Command, in 1974. At the time, General Cleveland needed some means of accurately measuring how much electronic fundamentals training was actually used on the job. He envisioned using EPI data to streamline training by eliminating "nice to know" information in the area of electronic theory.

At the general's request, Dr. Walter E. Driskill, Chief of the Occupational Analysis Branch, set up a task force to conceptualize, develop, and apply a method for measuring job usage of electronic principles. The task force was composed of personnel from the Occupational Analysis Branch who were well qualified in theoretical physics and electronics. These personnel also had considerable expertise in task analysis and survey development. With the assistance by these individual, electronic experts from five ATC Technical Training Centers, averaging 12 years maintenance experience and four years of electronic principles instruction experience, spent three weeks working on the development of the EPI. This tentative EPI was then reviewed and refined by over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFSC as well as personnel at the Electronic Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory. The resulting EPI contained 1,257 items uder 62 subject matter areas covering all electronic principles training given at the five ATC Technical Training Centers.

During 1977, this EPI was administered to more than 11,000 airmen in 54 different Air Force specialties. Since the aim of the EPI was to determine the extent electronic fundamentals training was actually used in the performance of Air Force jobs, the logical person to survey was one at the worker level with sufficient time on the job to understand all that it entailed. Consequently, only 5-skill level personnel with more than 18 months active duty service were surveyed. Results from this project were used extensively by the various training managers to refine their respective plans of instruction.

This original EPI was revised in 1978 and 1979 to more accurately reflect some of the computer oriented and various other electronic principles. The revision was accomplished by Mr. James L. Slovak, Inventory Development Specialist, and Captain Frederick B. Bower, Jr., Occupational Survey Analyst, after consultation with electronic principles instructors at each of the technical training centers. Following this extensive review, the EPI was reprinted in its current format.

Description

The EPI differs from the usual task oriented survey in two major respects. First, the EPI asks two general questions: "what do you do?" and what electronic knowledge do you use in performing your job?" The usual task survey concentrates on only one question: "what do you do?" The second difference is the EPI can be administered to anyone who works with electronics. That is, it is general in nature, unlike the usual job inventory which is aimed at a single specialty within a career field.

Administration

This Electronic Principles inventory was administered to personnel in the Aircraft Control and Warning (AC & W) Radar (AFS 303X2) career ladder during the period January through June 1980. Personnel were selected to participate in this survey so as to insure an accurate representation across all MAJCOMs and paygrade groups. Table 1 reflects the major command distribution of personnel assigned as of the fall of 1980 and the distribution of incumbents in the survey sample. The 478 members making up the final sample represent 47 percent of the 1,023 total assigned. Table 2 shows the paygrade distribution of the sample as compared to the assigned strength. Although the number of airmen sampled was quite low, the sampling in the E-4 through E-6 paygrades was very adequate and should accurately reflect the Electronic Principles characteristic of this career ladder.

TABLE 1
COMMAND REPRESENTATION OF SURVEY SAMPLE

MAJOR COMMAND	PERCENT ASSIGNED	PERCENT SAMPLED
TAC	58	64
USAFE	17	13
AFCC	13	14
ATC	4	5
PACAF	3	2
AFSC	2	1
OTHER	_ 3	1
TOTAL	100	100

TOTAL 303X2 ASSIGNED - 1,023 TOTAL 303X2 SAMPLED - 478 PERCENT SAMPLED - 47%

TABLE 2
PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

	PERCENT ASSIGNED	PERCENT SAMPLED
AIRMEN	14	0
E-4	16	36
E-5	36	34
E-6	20	21
E-7	14	8
NOT REPORTED	_0	_1
TOTAL	100	100

PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,332 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the six selected groups identified for this report. Pages 2-46 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 3. For example, the Transformers area results are given on pages 6-7 of the GPSUM. The percentage of survey respondents indicating use of specific electronic principles ranged from high in areas such as Meters/Multimeters (p. 3), Soldering (p. 10), and Oscilloscopes (p. 12) to low in areas such as Infrared (pp. 42-43), Lasers (pp. 43-44), and Display Tubes (p. 44-45).

TABLE 3
EPI SUBJECT AREAS

SEQUENCE OF SUBJECT AREAS	SUBJECT AREAS TITLE	BEGINNING ITEM NUMBER	GPSUM PAGE NUMBER
1	MATHEMATICS	A1	2
2	DIRECT CURRENT AND VOLTAGE	A16	2
3	RESISTORS/RESISTIVE CIRCUIT	A29	2
4	METER/MULTIMETER	B64	3
5	ALTERNATING CURRENT	B72	4
6	INDUCTORS/INDUCTIVE REACTANCE	B79	4
7	CAPACITORS AND CAPACITIVE	C104	5
8	TRANSFORMERS	C136	6
9	MAGNETISM	C176	7
10	RCL CIRCUITS	D188	7
11	TRANSFORMERS MAGNETISM RCL CIRCUITS TIME CONSTANTS FILTERS	D234	9
12	FILTERS	D241	9
13	COUPLING	E257	10
14	SOLDERING	E268	10
15	RELAYS	E281	11
16	MICROPHONES AND SENSING DEVICES		11
17	SPEAKERS	F313	12
18	OSCILLOSCOPES	F328	12
19	SEMICONDUCTOR DIODES	G346	12
20	TRANSISTORS	G388	14
21	TRANSISTOR AMPLIFIERS	G412	15
22	SOLID-STATE SPECIAL PURPOSE DEVICES	н458	17
23	POWER SUPPLIES	H472	18
24	OSCILLATORS	Н502	19
25	MULTIVIBRATORS	I533	19
26	LIMITERS AND CLAMPERS	1548	20
27	ELECTRON TUBES	1558	20
28	ELECTRON TUBE AMPLIFIERS AND		
	CIRCUITS	J597	21
29	SPECIAL PURPOSE ELECTRON TUBES	J604	22
30	HETERODYNING AND MODULATION-DE MODULATION (MODEMS)	J618	22
31	AM SYSTEMS	K625	22
32	FM SYSTEMS	K645	23
32	NUMBERING SYSTEMS	K667	24
34	LOGIC FUNCTIONS	L691	25
35 35	BOOLEAN EQUATIONS	L724	26 26
36	COUNTERS	L736	27
30 37	TIMING CIRCUITS	L758	27
3 <i>1</i> 3 8	USE OF SIGNAL GENERATORS	M770	28
30	ODE OF SIGNAL GENERATORS	11//0	20

TABLE 3 (CONTINUED)

EPI SUBJECT AREAS

SEQUENCE OF		BEGINNING ITEM	GPSUM
SUBJECT AREAS	SUBJECT AREAS TITLE	NUMBER	PAGE NUMBER
39	MOTORS AND GENERATORS	M784	28
40	METER MOVEMENTS	N814	29
41	SATURABLE REACTORS AND MAGNETIC		
	AMPLIFIERS	N826	29
42	WAVESHAPING CIRCUITS	N838	30
43	SINGLE OR INDEPENDENT SIDEBAND		
	SYSTEMS	0852	30
44	PULSE MODULATION SYSTEMS	0882	31
45	ANTENNAS	0922	33
46	TRANSMISSION LINES	P965	34
47	WAVEGUIDES AND CAVITY		
	RESONATORS	P995	35
48	MICROWAVE AMPLIFIERS AND		
	OSCILLATORS	P1038	37
49	REGISTERS	Q1115	39
50	STORAGE DEVICES	Q1122	40
51	DIGITAL TO ANALOG AND ANALOG		
	TO DIGITAL CONVERTERS	Q1149	41
52	PHANTASTRONS	Q1165	41
53	SCHMITT TRIGGERS	Q1166	41
54	CABLE FABRICATION	R1169	41
55	INPUT/OUTPUT (PERIPHERAL)		
	DEVICES	S1171	41
56	PHOTO SENSITIVE DEVICES	S1185	42
57	SYNCHRONOUS VIBRATIONS		
	(CHOPPER CIRCUITS)	S1186	42
58	INFRARED SYSTEMS	T1195	42
59	LASERS	T1223	43
60	DISPLAY TUBES	T1257	44
61	TELEVISION	T1273	45
62	PROGRAMMING	U1283	45
63	DB AND POWER RATIOS	U1327	46

APPENDIX A

PCT HBRS RESP . 765. - 303X2 DAFSC/CONUS/OS GRPS

TABULATION OF PERCENT MEMBERS RESPONDING "YES" TO USE OF ELECTRONIC PPINCIPLES BY 303A2 DAFSC/CONUS/O"SEAS GROUPS IN THE 303A1,2,3 EPI CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

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478 MEMBERS. 272 MEMBERS. 206 MEMBERS. 12 MEMBERS. 65 MEMBERS. 209 MEMBERS.

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MET PRS/MULTIMETERS

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING DY-TSK	8 97 3 INDUCTORS/INDUCTIVE REACTANCE - CALCULATE THE TOTAL	A 98 INDUCTORS/INDUCTIVE REACTANCE - USE OR REFER TO THE GENERAL CONTROL OF THE GENERAL RULE THAT CURRENT LAGS VOLTAGE IN AC INDUCTOR CIRCUITS.	B 99 3 INDUCTORS/INDUCTIVE REACTANCE - CALCULATE INDUCTIVE REACTANCE	B 100 3 INDUCTORS/INDUCTIVE REACTANCE - USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO FREQUENCY	8 101 3 INDUCTORS/INDUCTIVE REACTANCE - WORK WITH POWER INDUCTORS B 102 3 INDUCTORS/INDUCTIVE REACTANCE - WORK WITH AUDIO FREQUENCY INDUCTORS	3 INDUCTORS/INDUCTIVE REACTA	104 1 CAPACITORS - NORK W		107 1 CAPACITORS -	C 108 1 CAPACITORS - TEST	TO TABATTAGES	111 1 CAPACITANCE - USE OF REFER	112 1 CAPACITANCE - USE OF REFER TO	C 113 1 CAPACITANCE - USE OR REFER TO FARADS, MICROFARADS, OR	114 1 CAPACITANCE - USE OR REFER TO	NCE - USE OR REFER TO DIELECTRIC CONSTANT NCE - USE OR REFER TO NORKING VOLTAGE RATING	CAPACITORS	C 117 1 CAPACITANCE - USE OF REFER TO CAPACITIVE REACTANCE C 118 1 CAPACITANCE - USE OR BEFER TO CAPACITOD COLDS FORCE	119 1 CAPACITANCE - MORK WITH CAPACI	120 I CAPACITANCE - HORK WITH CAPACITORS IN AC CIRCUI	PACITORS IN	C 122 1 CAPACITANCE - CALCULATE FOR PARTICULAR CAPACITORS USING FORMULAS	C 123 1	USE OF R	THE DIELECRIC THICKNESS C 125 1 CAPACITANCE - CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES
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U	127 1 CAF	CAPACITANCE - CALCULATE THE TOTAL CAPACITANCE OF	24	23	26	33	31	22	
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J)	51.2 TR	WORK WITH SATURABLE CORE	9	9	\$ 2	58	8	9 8	
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15.2 Pransy Corrects - Refer to multiple Secolaray - Multiple Secola	TASK GROUP SUMMAR PERCENT MEMBERS PE	ARY PERFORMING			7			5	
157 PANASCOMERS - REFER TO BASIC SYMBOLS FOR THE CATALOGY FOR			AI.1	SKI	SKL			0.s	
15.2 PRANSCORRES - REFER TO GENERAL SYNGOLS FOR STANDARD STAND			SPC	SPC	SPC	SPC	SPC	SPC	
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15.5 YARROLES SECREP TO MULTIPLE TAP SYMBOLS 16.0 2 TRANSCORRERS - REFER TO CAVIED TAP SYMBOLS 16.0 2 TRANSCORRERS - REFER TO CAVIED TAP SYMBOLS FOR 16.2 TRANSCORRERS - REFER TO LONG CORE SYMBOLS FOR 16.2 TRANSCORRERS - REFER TO LONG CORE SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO LONG CORE SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO LONG CORE SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO LONG CORE SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO CAMBINATION OF SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO CAMBINATION OF SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO CAMBINATION OF SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO CAMBINATION OF SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO CAMBINATION OF SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO CAMBINATION OF SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO CAMBINATION OF SYMBOLS FOR 16.5 TRANSCORRERS - REFER TO CAMBINATION OF SYMBOLS FOR 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - CALCULAIR CURRENT RATIOS USING THREE PHASE 16.5 TRANSCORRERS - USE OR REFER TO PERMEABILITY OF MAGNETIC THREE PHASE 16.5 TRANSCORRERS - USE OR REFER TO PERMEABILITY OF MAGNETIC THREE PHASE 16.5 TRANSCORRERS - USE OR REFER TO PERMEABILITY OF MAGNETIC THREE PHASE 16.5 TRANSCORRERS - USE OR REFER TO PERMEABILITY OF MAGNETIC THREE PHASE 16.5 TRANSCORRERS - USE OR REFER TO PERMEABILITY THREE PHASE 16.5 TRANSCORRERS - USE OR REFER TO PERMEABILITY THREE PHASE 16.5 TRANSCORRERS - USE OR REFER TO PERMEABILITY THREE PHASE 16.5 TRANSCORRERS - USE OR REFER TO PERMEABILITY THREE PHASE 16.5 TRANSCORRERS - USE OR R	158 2 1	S - REFER TO MULTIPLE	6.3	69	6.3	83	72	69	
16.2 TRANSFORMERS - REFER TO ALTHE TO STREAM 1.0	SYMBOLS		;	i		,	1	i	
160 Transformers Refer to a reverse The Stradous Fore The Stradous	159 2	S - REFER TO MULTIPLE TAP	9	73	65	7.5	11	72	
16.2 TRANSFORMERS - RFEER TO TAIR COME SYMBOLS FOR 24	160 Z T	S - REFER TO CENTER TAP S	0,0	73	65	83	11	73	
16.2 I TANNSCORMES - RECER TO VARIABLE FRANSCORMES OF 64 95 95 94 6 91 16.2 I TANNSCORMES - RECER TO A COMBINATE FRANSCORMES - PETER FO A VARIABLE FRANSCORMES - PETER FO A VARIABLE FRANSCORMES - PETER FO A COMBINATOR OF SYMBOLS FOF 55 96 57 95 95 91 62 91 16.2 I TANNSCORMES - DETERMINE YOUT GES WITHOUT CHANGE	161 2 T	S - REFER TO	38	35	#	83	₹ (.)	33	
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16.2 TRANSFORMERS - DEFERENTE CACOUSTING OF SYMBOLS 16.4 STRANSFORMERS - DEFERENTE PHASE RELATIONARIS BETWEEN 16.5 STRANSFORMERS - DEFERENTE PHASE RELATIONARIS	2 TR	S - REFEP TO VARIABLE TRANSFORMER SYMBOLS F	62	49	59	75	89	63	
16.5 TRANSCORMERS - DETERMINE NAME REFER 10 THE TYPE CF COPE 27 24 32 17 29 22 24 44 27 24 32 17 29 22 24 45 24 25 24 24 45 24 25 24 24 45 24 25 24 24 45 24 25 24	164 2	- REFER TO A COMBINATION OF SYMBOLS FOR	59	9	5.7	8	62	61	
16.5 ECOMORMERA AND PRIERRY VOLLAGE CALEMATIC SYMBOLS 16.5 ECOMORMERA AND PRIERRY VOLLAGE CALEMATIC SYMBOLS 16.7 TRANSFORMERS - DETERBING CHERRAL RULE THAT THE 32 50 13 33 40 26 16.6 ETRANSFORMERS - USE ONAL TO THE YOLLAGE RATIOS USING TURNS 54 56 55 53 16.2 TRANSFORMERS - CALCULATE CURRENT RATIOS USING TURNS 16 16 16 16 16 26 14 16.2 TRANSFORMERS - CALCULATE CURRENT RATIOS USING TURNS 16 16 16 16 16 26 14 17.0 TRANSFORMERS - LUST THREE PHASE 170 18 16 16 16 16 16 16 16 16 16 16 16 16 16	165 2	١	47	9 7	60 3*	20	3.	*	
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10.2 I PRANSFORMERS - CALCULATE VOLTAGE RATIOS USING TURNS	68 2 TRANS	- USE OR REFER TO STEP-UP OR ST	54	26				53	
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17.2 TRANSCORRERS - LOSE THREE PHASE 55 6 59 6 59 75 66 59 77 2 18 74 18 75 75 75 75 75 75 75 75 75 75 75 75 75	~								
172 TRANSFORMERS - INSPECT THREE PHASE 55 56 54 83 66 54 17 12 2 TRANSFORMERS - LASPECT THREE PHASE 56 54 9 10 13 55 47 17 13 18 17 14 2 TRANSFORMERS - ADUUST THREE PHASE 56 54 9 10 13 55 47 17 13 18 17 14 2 TRANSFORMERS - ADUUST THREE PHASE 56 54 9 10 13 14 15 17 13 18 17 14 18 18 18 18 18 18 18 18 18 18 18 18 18	~	•	S.	9	54	75	6.8	29	
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TASK GROUP SUMMARY	PERCENT MEMBERS PERFOHMING

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					٥	DY-TSK	¥			014	016	017	37.0	025	926	
~	5	1 RCL	CIRCUITS	2	USE O	BA RE	REFER	10 1	TANGENT WHEN WORKING WITH	1	17	61	33	56	13	
0	194	1 :		Sh					WHEN HO		4	8	42	9	3	
	195	T RCL	RCL CIRCUITS ORKING HITH	Sn -	USE O	OR RE	REFER		TRUE POWER (PT) WHEN	2.5	27	22	1.7	50	27	
0	196 1	N RCL	RCL CIRCUITS	Ď:	USE O	OR RE	REFER	¥ 0: 1-	MAXINUM PONER (PH) WHEN	33	14.5	32	52	£ 0	33	
. 0	197	1 ACL	RCL CIRCUITS	Š	USE D	OR RE	REFER	10 A	AVERAGE POWER (P AVE) WHEN	EN 43	មា វ	39	52	4	3	
0	198	I RCL	RCL CIRCUITS ORKING WITH	50	USE O	OR RE	REFER	10	APPARENT POWER (PA) WHEN	21	22	2.1	52	2.2	22	
ò	199	1 BCL	RCL CIRCUITS	Σ) 1.	USEO	OR REF	œ	0.	PONER FACTOR (PF) HHEN	23	25	\$Ž	11	28	2.1	
0 2	200 1	1 ACL	ACL CIRCUITS	2	0 350	OR RE	REFER	10 8	RESONANT CIRCUITS WHEN	æ 3	F 7	œ F	33	5.5	4	
0 2	201	1 3 C	CIRCUITS	i i	USE O	OR RE	REFER	10 8	BANDWIDTH WHEN WORKING	\$6	80	54	11	9	95	
0 2	202		CIRCUITS) 	USE	OR RE	REFER	10	SELECTIVITY WHEN	4.1	4.2	0.3	17	51	1.5	
0 2	203	I PCL	RCL CIRCUITS	S S	USEO	OR RE	REFER	10	PESONANT FREQUENCY MHEN	35	51	C 3	25	5.7	21	
0 2(204 1	200	RCL CIRCUITS	2	USE O	OR RE	REFER	10	HALF POWER POINTS WHEN	e) Ei	χ. 4	52	8	60	53	
0 20	205	A RCL	RCL CIRCUITS	- USE		OR RE	REFER	10	BANDPASS REGION WHEN	æ Ŧ	20	9 11	11	25	o	
0 21	206	1 PCL	CIRCUITS	ı	USE O	OR RE	REFER	0	CIRCUIT Q WHEN MORKING	56	2.7	5 th	0	28	82	
0 5	207 1	1 PCL	RCL CIRCUITS	•	USE 0	OR RE	REFER	10	TANK CIRCUITS WHEN	47	00 \$	4.7	52	5. 3.	4.7	
2	208	A SCL	RCL CIRCUITS		FTER	H Z Z E	DETERMINE VALUES	UES	OF TRIGONMETRIC FUNCTIONS	NS 16	11	21	K.	18	٠	
<u>۲</u>	204	A RCL	RCL CIRCUITS - DRAW	0 2	RAN	706.7	AGE ,	S S	DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR	0R 11	٥	#	0	٥	٥	
0	210]	CAPACE	RCL CIRCUITS - USE	- U.S	SE 0	α .	REFER	10 1	TO TOTAL IMPEDANCE FOR	22	52	56	0	2	25	
2 0	211	THPED	PCL CIRCUITS	- USE	SE 0	OR RE	FER	10	- USE OR REFER TO PHASE ANGLES BETWEEN	12	3,0	16	co	11	10	
0	212	2	CIRCUITS		USE	OR RE	FER	0	REFER TO TOTAL IMPEDANCE FOR SERIES		58	30	80	50	30	
	×	FOR S	. CIRCUITS SERIES	Š I	USEO	OR RE	# # #	0	IMPEDANCE ANGLES		2		0	7	=	
0	214 1	I RCL	RCL CIRCUITS	. 1	USEO	OR RE	REFER	10	APPARENT POWER (PA)	14	7.	15	90	1 7	13	
.00	215	1 8CL	CIRCUITS	٠,	USE	OR RE	REFER	101	TRUE POWER (PT) FOR SERIES	ES 18	15	4 F	25	8. C	17	
	•	SERIES	ES								:	9	,	7	9	
90	217	1 2 C	CIRCUITS	1 1	USE 0	040 040 040	REFER	20	TOTAL CURRENT FOR PARALLEL Impedance angles for	ון זמ	٥ - ١	۳ ر د	(1) (2)	2 A C L	™	
		PARALLEL	וונו				:			1	;	•	•	! •	:	

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The Assumed voltage wethod for a control of the c																											TIME CONSTANTS										,			FILTERS		
The ASSUMED VOLTAGE HETHOD FOR	5	, d	37.C 026	J	35			2 # 5	5.5	~	62	37	o-		37	31		23			20		8		2.1		9	56		5 !	-		11		17			91	1	3	29	
The ASSUMED VOLTAGE METHOD FOR		٠	025	12	62		ر به ا	5.5	69	œ F	11	4 10	σ.		2 4	37		26			9	1	23		52		7	*		15	6.7		52		22			1.3	•	;	9	
ALLI SKI. THE ASSUMED VOLTAGE METHOD FOR DINGE FOR PARALLEI DUNCE FOR PARALLEI THE ASSUMED VOLTAGE METHOD FOR TO BOTH THE PASSUMED VOLTAGE METHOD FOR TO BOTH THE PASSUMED STANDING TO BOTH THE PASSUMED STANDING SUBSTITUTION AT THE PASSUMED STANDING SUBSTITUTION AT THE PASSUMED STANDING SUBSTITUTION AT THE PASSUMER STANDING SUBSTITUTION AT THE RESISTORS USING SUBSTITUTION AT THE RESONANT AT THE SONANT AT T	5	SKL	3rc 022	60	52	!	33	7	m m	1	67		•		3	17		αQ			58		80		60		42	7	ļ	m m	0		e 0		۵				•	5	67	
ALLE SOURCE FOR PARALLEL DANNEE FOR PARALLEL SOURCE FOR PARALLEL STANDER SOURCE FOR SOURCE SOUR SOURCE SO	7	SKI	017	11	36		53	→ (20	5	23	M (ec.		4	E M		32			¢		81		22		ş	56		Ξ:	•		20		11			0	•	ŝ	37°	
DY-TSK THE ASSUMED VOLTAGE METHOD FOR DANCE FOR PRAILE. OHM'S LAW FOR DETERNING TOTAL CENTER OF DETERNING TOTAL SECONDARY OF THE BRAILE SECONDARY OF THE SE	\$	SKI.	57C C16	٥				3 (5. 8.	42	65	38	Φ		3.8	32		24			51		6 1		2.1		9	88										9	3	2	9	
THE ASSUMED VOLTAGE METHOD FOR DANCE FOR PARALLEL COUNTY S. LAW FOR DETERMING TOTAL COUNTY S. LAW FOR DETERMING TOTAL C.		AI.I	014	10	3.2		S !	en . Sti	ar vo	4	9	9 (•		39	32		27			50		3 0		21		7	27			9		13		1.8			-	•	\$	S	
PEASE TO D 23 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TASK GROUP SUMMARY Percent members performing		¥S±−¥Q	219 1 RCL CIRCUITS - USE THE ASSUMED VOLTAGE METHOD F DETERMING TOTAL IMPEDANCE FOR PARALLEL	220 1 RCL CIRCUITS - USE OHM'S LAW FOR DETERMING TOTAL	IMPEDANCE FOR PAPALLEL	221 1 MCL CIMCUITS - CHECK CAPACITORS USING	222 J RCL CIRCUILS - CHECK CAPACITORS USING	223 L RCL CIRCUITS - CHECK INDUCTORS USING	224 1 RCL CIRCULIS - CHECK INDUCTORS USING	225 1 RCL CIRCUITS - CHECK RESISTORS	220 J RCL CIRCUITS - CHECK RESISTORS USIN	ATTEMPT OF PORTS FACTOR (PF. 1)	TRUE POWER (PT) FOR RESONANT	228 1 RCL CIRCUITS - USE OR REFER	229 1 RCL CIRCUITS - USE OR REFER	IN TARIBOR BAD CONTRAL BANISON AND THE	230 1 PCL CIRCUITS - USE OF REFER TO THE GENERAL RULE THAT	URRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT	FREQUENCY FOR PARALLEL	231 1 RCL CIRCUITS - USE OR REFER TO THE GENERAL RULE THAT	POWER POINTS ARE AT 70.7 OF THE PEAK CURRENT	BANDETOTE IN TRAFFIC V PROPOSITIONAL TO THE GLOST TY OF	THE COIL (9)	233 1 RCL CIRCUIT - DETERMINE HOW CHANGES IN FRE	OR INDUCTANCE WILL	234 2 TIME CONTANTS - MORK WITH,	235 2 TIME CONTANTS - USE OR REFER TO THE GENERAL RULE THAT	CAPACITOR IS FULLY CHARGED OR (DISCHARGED) AFTER FIVE	236 2 LIME CONSTANTS - USE OR REFER TO UNVIEWSAL 233 2 TIME FORMSTANTS - USE SOLISTIONS OF SORMS AS	CINCUIT CURRENT OR COMPONENT VOLTAGES AFTER	TIME FOR RC OR LR CIRCUITS	238 2 TIME CONSTANTS - USE EQUATIONS OR FORMULAS TO	CURRENT OR COMPONE	239 2 TIME CONSTANTS - USE EQUATI	A CIRCUIT	VOLTAGES TO REACH SPECIFIC	240 2 TIME CONSTANTS - 11SF OR REFER TO	CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE	241 3 FILTER CIRCUITS	242 3 FILTER CIRCUITS	

											COUPLING									:				SOLDERING			
5 5 US 0's	SPC SPC 025 026	63 60 60 53 58 52	n. r. n. n.	un m	m	25 15	1° 437° G Mari	# 0 # T	1 14	31 60		4.0	,	09 89		68 S6	71 56	. 25 69	68 58			62 55	65 53	74 75 S(· 61	9 ~	.
7 9 5 SKI. SKL U	SPC SPC S 017 022 0	48 17 40 17				0 0	r wo	e c		ľ	5.5 8.0 8.0 8.0	5.2 5.8	3	54 58		2 4 94	44 45	46 42	53 50			51 50	54 50			40 25 68 92	m
5 AL1. SKL	SPC SPC 014 016			- 49 - 10 - 10	-	12 17	7 47 2 Fu	10 12		,		47		58 61		53 58	53 59	54 59	57 60	٠	n o	54 56	58 61	71 75	· ~ ·	52 61 74 79	67 77
TASK GROUP SUMMARY Percent Members Deptorming	DV-75K	CIRCUITS - CLEAN CIRCUITS - ALIGN OR ADJU CIRCUITS - TROUBLESHOOT	246 3 FILTER CIRCUITS - TROUBLESHOOT T 247 3 FILTER CIRCUITS - MORK WITH LOW	248 3 FILTER CIRCUITS - MORK WITH HI 249 3 FILTER CIRCUITS - MORK WITH BA	250 3 FILTER CIRCUITS - MORK WITH BA	251 3 FILTER CIRCUITS - DON'T REMEMB	253 3 FILTER CIRCUITS - MORN WITH I-	254 3 FILTER CIRCUITS - MORK MITH PI 255 3 FILTED CIRCUITS - MORK MITH VI	FILTERS 256 3 FILTER CIRCUITS - USE EQUATIONS OR FORMULAS TO D CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPE		COUPLING DEVICES CIRCUITATION DIAGRAMS AND RELATE TO THE ACTUAL	MO VALINGOT - VOT	DISCRAMS AND RELATE TO THE ACTUAL CIRCUITY ASSOCIATED WITH IMPEDANCE COUPLING	IDENTIFY ON SCHEMATIC	MINERALS AND MELATE TO THE ACTUAL CINCLING THE ASSOCIATED WITH TRANSFORMER COUPLING	E 261 1 COUPLING DEVICES ON CIRCUITY - TROUBLESHOOT CIRCUITS BATCH MAKE COMPONENTS EXICH PERFORM THE RO COMPINE	TROUBLESHOOT		MAICH HAVE COMPONENTS MHICH PERFORM TRANSFORMER COUPLING 264 1 COUPLING DEVICES OR CIRCUITRY - MORK WITH DIRECT COUPLED	CIRCUITS	ACS ISTANCE COUPLED CIRCUITS PESISTANCE COUPLED CIRCUITS	E 266 1 COUPLING DEVICES OR CIRCUITRY - MORK WITH CAPACITIVE- Inductive coupled circuits	_	266 2 SOLDER	2 SOLDERING -	271 2 SOLDERING -	E 273 2 SOLDERING - CLEAN OR TIN CONNECTIONS
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·~	SPC	470	4 4	60 60 67: 73	83		1 t	52	2	. 72 53	7.5	18	α ~	37	œ.:	17	9 6	1 L	2	74	ì	25	6.8		99	5.8	72	~	r	v n	ı m	~	ſ	∨ ~	2	u v	۰,
6	SKI.	720	33	33	25		œ ;	÷ 0	2	52	33	75	4.2	1,	52	m o	• •	75	52	75	ļ	5	7.5		1.5	7.5	50	4.2		n e e	•	1,	ď	D 600	•	∞ ⊂) O,
7	SKI.	÷	3.	5.0	E)	:	- P	0.7	5		5.4	26	25	3 ;		~ ;	7 6	5.2	27	98		ô	5.5	,	25	57	5.2	=	•	o #	•	₽	ŕ	v <i>æ</i>	m.	* -	
5	SKI.	ָר פ	7.3	77	7.1	;	٠, ۱	7	=	6 4	67	73	7.	32	~	80 4	2 2	3.2	80	49	į	5	61	;	9	59	8	٥	4	9 67	^	'n	r	4 v	~	y -	-
	ALL SPC	5	6.5	62	6 3	ì	9 5	12	F	9	5.8	99	63	5.	0	51	7 6	29	e M	6 1	;	9	59	•	S	ئ 80	62	=	•	o w	• ec	U i	٠	. r	m.	.	, ~
TASK GROUP SUMMARY Percent members performing	**************************************	577-50	274 2 SOLDERING - MAKE HARDWIRE CONNECTIONS	2 SOLDERING - SOLDE	277 2 SOLDERING - SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE	DIODES OR TRANSISTORS	2 SOLDERING	SOLDERING - PERFORM BIRE CONNECTIONS	281 3 RELAYS - MORK WITH	2 3 RELAYS - ADJUST	3 3 RELAYS -	S RELAYS -	S MELAYS - TROUBLESHOOT	MELATS I	TO THE PARTY OF TH	3 RELAYS -	RELAYS - PERFORM TASKS ON	3 RELAYS - PERFORM TASKS ARMATU	2 3 RELAY	'S - USE OR REFER TO SCHEMATIC	POLE, SINGLE THROW (SPST), MORMALLY OPEN (NO)	POLE, SINGLE THROW (SPST), MORRALLY	S - USE OR REFER TO SCHEMATIC SYMBOLS	OBLE, DOUBLE THROW (SPDT) DELAYS - HET ON DEFEN TO CONTACT CONTACT CONTACT	POLE, DOUBLE THREG (0PDT)	297 3 RELAYS - USE OR REFER TO SCHEMATIC SYMBOLS FOR OTHER RELAY SYMBOLS	~	299 1 MICROPHONES - PERFORM TASKS DEALING WITH MICROPHONES OR	5	1 MICROPHONES -		1 MICROPHONES	SOF MICROPHONES - TROUBLE CHOOL DOWN TO BARTS	1 MICROPHONES - REMOVE OR REPLACE	1 MICROPHONES - REMOVE OR REPL	1 MICROPIONES - PERFORM TASKS ON	TASKS
TA PE			() () (u) ()		£ 2		4 C		2			, i			4 6					₹			~ ⊌:	-		M.	~	~	M		m.		14	M	10) ji): P)	~ ⊃į
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				Michael Control of the Control of th	SPLAKERS														OSCILLOSCOPES							1 1 1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				SENTIONEDICTOR BIODES	CHANGE OF THE CONTRACT OF THE				
0.2 0.4	\$PC 026	•	~	٦,	•	1 3	ىد -	_		~	ø r	v -	• -	. ~	-	۵,		î	8 2	7.3	7.3	7.	20	72	:	7.5	2,4	7.1	9	o -	• •	5.6	6.8	o :	2 2	: :	: .	ss.	12	
5 5 US	U Y	m	21	╬	ۍ ۲	, ur	٠	r		₩.	c •	? n	٠,٠	e:	Λ,	~ ∙	۷ ۸	12	82	11	11	80	2 9	5 6	., ,,	8.0	080	7.0	c a	. e	(D) 40	9 ę	9	= ;	82		E,	o	<u>`</u>	
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7 SKL		4	۰ ۵		· cc	ď	_			₩.	- م		• 0	C	a ·	0	0 C	٦	6 9	09	5.8	9	7.1	56	e o	67	8	4	7	. V	9	51	643 ·	9		9	83	œ.	12	
5 SKL	مدن	m	٦:	- -	· ·	3	ۍ د	9		7	۰ م	٠-	. ~	-	٠,		-	82	8 1	74		5	28	2 6		16	41	7.2	3	- 19	16	6.0	9	7 7	1	72	7.3	٥	15	
AI.I.	SPC 014	7		۱.	•) LC	,	•		m .	۰ م	-			۰.			200	16	6.8	67	7.	~ ;	20 4 27 F		12	14	70	4	9	72	56	9	9 6	-	9	40	~	7 T	
TASK GROUP SUREARY PERCENT MERBERS PERFORMING	0x-15x	310 1 HICROPHONE - PERFORM TASKS ON DYNAMIC	F 311 1 MICROPHONE - PROFORM TASKS ON VELOCITY RIBBON F 312 1 MICROPHONE - BEDEFORM TAKE ON TRANSCRIPES	313 2 SPEAKERS - PERFORM TASKS DEALTHG HITH	314 2 SPEAKERS - INSPECT	SPEAKERS - CLEAN	316 2 SPEAKERS - OPERATE	2 SPEAKERS - TROUBLESHOOT AS	CONNECTIONS BUT ROT DOKE TO PART	SHOOT DONS	S SPERATED I DESCRIPTION OF PARTY OF THE PAR	321 2 SPEAMERS - PERFORM TASKS ON CONE	322 2 SPEAKERS - PERFORM TASKS ON SPIDER	SPEAKERS - PERFORM TASKS ON FIELD	CONTRACTOR - PROPERTY AND	CONTRACTOR TO CANADA TAKEN OF	327 2 SPEAKERS - PERFORM TASKS ON SOFT	3 0SCILLOSCOPES - USE	3 OSCILLOSCOPES - USE TO PERFORM O	330 3 OSCILLOSCOPES - USE TO PERFORM ALGINMENTS OR AD	A SOCILLOSCOPES - USE TO TROUBLES	232 3 OSCILLOSCOPES - USE TO MEASURE F	A DOCTTO DECORES - USE TO REASONE IL	335 3 OKC22- OKCOPER - USE TO	ATTENDATOR PROBES	F 336 3 OSCILLOSCOPES - USE TO MAKE FREQUENCY OR TIME MEASURE-	3 OSCILLOSCOPES - USE TO MEASURE A	338 3 OSCILLOSCOPES - USE TO MEASURE OR O	TEXAL ADJUSTING THE GALLA AND DC BARL CONTROLS TO MAD 3 OSCILLOSCOPES - USE TO MEASURE DC VOLTABRE	3 OSCILLOSCOPES - USE TO OBSERVE D	3 OSCILLOSCOPES - USE TO MEASURE RIPPLE	S - USE TO MEASURE PHASE LITTER	3 OSCILLOSCOPES - USE TO DISPLAY SWEEP	3 OSCALLOSCOPES - USE TO OBSERVE O	346 1 SEMICONDUCTOR DIODES - WORK WITH	347 1 SEMICONDUCTOR DIODES -	1 SEMICONDUCTOR DIODES - CHECK	349 1 SEMICOMDUCTOR DIODES - USE ENERG	ION CHARACTERSITI Labo and devense	OLINGE, TO COMPUTE FORMARD OR REVERSE BIAS
				1	,	-										-		[-									1.					

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PCT MBMS RESP *YES*- 303x2 DAFSC/CONUS/OS GRPS

14	TASK GROUP SUMMARY Percent Wembers Performing		so.	,	5	5	۲,
		ALL. SPC	SKI.	SKI.	SKI.	SPC	2 S
	9Y~TSK	014	016	017	922	025	026
9	351 1 SEMICONDUCTOR DIODES - COMPUTE FORMARD OR REVERSE BIAS Resistance	22	54	د -	1.7	32	2.5
9	CION DIODES - USE OR PEFEN TO THE GENERAL PUL Rature can affect operation of	77 V	53	54	67	a) (5.2
9	353) SEMICONDUCTOR DIODES - IDENTIFY AS OPPOSED TO OTHER	49	8	0.9	6.7	4.	6.7
	ELECTRONIC COMPONENTS, PHYSICAL APPEARANCE						
9	35% I SEMICONDUCTOR DIODES - REFER TO OR DETERMINE THE GENERAL RESERVE OF DOCTOR OR FLOORING OF FLOORING FOR	it 15	. .	91	∞	1.8	12
9	NDERSTANDING OF	4.5	55	25	5.8	29	£.
9	MEASUREMENTS OF FORWARD BLAS RESISTANCE TO PERFORM JOB 356 I SEMICONDUCTOR DIODE - NEED AN UNDERSTANDING OF CIOCE	59	25	E E	58	57	22
9	COLOR CODING TO PERFORM JOR 357 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF DIODE	5.5	5.8	20	S B	17	5.5
9	NUMBERING SYSTEM TO PERFORM JOB 358 1 SEMICONDUCTOR DIODE - NEED AN UNDERSIANDING OF	5.5	r.	ر بر د	ν. ας	η. Π.	U
	MEASURENTS OF REVERSE		•	•	?	,)
n o	359 I SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF WALENCE FIFETRONS (THOSE IN THE DUTERROST SHELL) TO BERFORM LOR	=	01	12	œ	7.7	J D
6 3(NEED AN		72	63	67	11	7.1
9 3	JOI I SEMICONDUCTOR DIODE - NEED AN UNDERSTANDING OF DIRECTION	ior N	69	62	67	75	67
	OF CURRENT FLOW THROUGH A DIODE TO PERFORM JOB			, (; !	. 6	. (
	CONSTRUCTION OF DIODES SUCH AS GERMANIUM OR SILICON	185 20	~	2 ,	1	2	2
9	363 I SEMICONDUCTOR DIODES - NEED TO KNOW THAT SEMICONDUCTOR HAVE NEGATIVE TEMPERATURE COFFETIVENTS OF DESTATABLE	38	37	O #	20	# 3	35
9	- USE OR REFER TO PA	JE 15	13	11	0	15	12
6 3	CHARRACTERISTICS CURVES 365 I SEMICONDUCTOR DIODES - DETERMINE WHETHER PN JUNCTION	51	52	50	50	63	6
	<u>OLODES ARE FORWARD BIASED OR REVERSE BIASED FROM CIRCUIT DIAGRAMS</u>						
m m	DUCTOR DIODES - NED UNDERSTANDING OF VALENCE DUCTOR DIODES - NEO AN UNDERSTANDING OF FORBI	BAND 12	13	11	17	1 6	11
, e	SANO 148 SERICONDICTOD DIODES - NEED AN INDEPSTANDING OF	1.2	=	4	q	1.2	-
	CONDUCTION BAND	:	:	•	3	<u>.</u>	:
9	364 I SEMICOMOUCTOR DIODES - NEED AN UNDERSTANDING OF CONVALENT BOADING	12	12	75	0 0	=	7.7
e 9	37D 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF ELECTRON	'N~ 15	15	15	60	1.8	13
e e		N 28	28	50	52	53	28
9	372 I SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING OF DONOR THEMBETS	13	12	7	40	18	1.
9	373 I SEMICOMDUCTOR DIODES - NEED AN UNDERSTANDING OF ACCEPTOR	12	11	1.4	wo	15	01

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING			<u>ر</u>	,	6	so :	<u>د</u> د	
			SKL	SKL	SKL	us SPC	o's SPC	
0Y-TSK	•	# TO	016	017	022	025	026	
G 374 I SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING	ING OF P-TYPE	33	33	33	33	4	58	
6 375 I SENTINGUADUCTOR DIODES - NEED AN UNDERSTANDING MATERIA	JING OF N-TYPE	33	33	6 0	33	4	62	
6 376 1 SEMICANDUCTOR DIODES - NEED AN UNDERSTANDING	JING OF MAJORITY	15	15	91	30 .	Ĭ7	7.	
6 377 1 SEMICONDUCTORS DIODES - NEED AN UNDERSTANDING CARRIERS	OING OF MINORITY	3.5	15	15	•	20	13	
6 378 1 SEMICONDUCTOR DIODES - NEED AN UNDERSTANDING	JING OF	12	12	1.1	60	20	11	
G 379 1 SEMICONDUCTOR DIODES - MEED AN UNDERSTANCING	TING OF DEPLETION	16	15	18	æ,	25	13	1
ONDUCTOR DIODES - NEED AN UNDERST ONSHIP BETWEEN BARRIER WIDTH AND TAI	ANDING OF SIFFERENCE OF	16	15	8	a	9	3.6	
SEMICONDUCTOR DIODES - USE OR REFER TO	THE 10:1 BACK TO	56	at U	89	67	29	52	
CONDUCTOR DIODES - USE OR REFER TO	BARRIER HEIGHT DIODE SUBSTITUTION	F 8	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	9 15	5.0		es m st	-
INFORMATION 6 384 1 SEMICONORO DIODES - USE OR REFER TO MAXIMU	IXIMUM AVERAGE	30	82	33	52	32	28	
DEBARD LOTREN. SENICONDUCTREN. OFWERD CHEMPTOT	AK RECLRPENT	97	52	٢,	52	٥ <u>٠</u>	52	
CTOR DIODES - USE OR REFER TO MAXIM OTOR DIODES - USE OR REFER TO PEAK VOLTAGE	MAXIMUM SURCE CURRE Peam Reverse	3.8	3 d M	n a n a	m m m m	4 3	33.3	
G 388 2 TRANSISTORS - WORK WITH G 389 2 TRANSISTORS - INSPECT		5 2	29 90	6 G	8 5 5 5	55 25	5.8 5.5	TRANSISTOR
390 2 TRANSIST	TITER - BACE	3 K	5.5	4 11 4 4	33	7 2	55	
(EB) FORMARD AND REVERSE RESISTANCE MEASU TRANSISTORS - USE OR REFER TO COLLECTOR FORMARD AND DEVICES DESIGNANCE MEASUREMENT	(68)	N KO	. 12		, η, 9 φ	2 #	52	
STORS - USE OR REFER TO EXITER - NGE MEASURET.	COLLECTOR (EC)	55	57	25	8 9.	=	25	
PS - USE OF REFER HOW BIASING MARRIER WIDTH OF THE EMITTER -	AFFECTS THE BASE LUNCTION	7 0	5.4	23	1.7	5.0	23	
TOR - USE OR REFER TO HOW BIASIN BARRIER WIDTH OF THE COLLECTOR	AFFECTS THE	23	74	23	1.7	f.1 0	23	
109 - USE 08 REFER TO 08 STRUCTURE (COLLECTO	SIZE OF THE	3.5	3.8	35	1.7	7	35	
OR - USE OR REFER TO LEAKAGE CUR OR - USE OR REFER TO SCHEMATIC S OR - USE OR REFER TO TRANSISTOR	RENT (ICBO) YMBOLS NOTATION SUCH AS	2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	27 66 67	4 t 10 10 10 10 10 10 10 10 10 10 10 10 10	20 00 00 00 00 00 00 00 00 00 00 00 00 0	25 76	V 18 0	
U.S. AZ. AZ. AZ. ETC G 4CC 2 TRANSISTUR - USE OR REFER TO SUBSTITUTION INFORMATION	INFORMATION	ر ا	5.1	0	9.0	.,	3 3	

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TASK GROUP SUMMARY Percent Wembers Performing	XST-15X	4)1 2 TRANSISTOR - USE OR REFER TO THE GENERAL RULE THAT THE Base current ib is normally significantly smaller than The emitter current	402 2 TRANSISTOR - USE THE INFORMATION THAT THE EFFECT OF EMITTER BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR	403 2 TRANSISTOR - USE THE GENERAL RULE THAT LEAKAGE CURRENT (1080) INCREASES AS TEMPERATURE INCREASES	TRANSISTOR - USE OR REFER TO C	Z TRANSISION - USE OR REFER TO	TRANSISTOR - USE OR	SPECIFIC TRANSISTORS	*CO 2 TRANSISTOR - USE OR REFER TO THE CURRENT GAIN FOR SPECIFIC TRANSISTORS BY DIVIDING THE CHANGE IN BASE	CUPRENT INTO THE CHANGE IN COLLECTOR CURRENT (AI	4 <u>10</u> 2 TRANSISTORS - USE OR REFER TO THE POWER GAIN FOR SPECIFIC TRANSISTORS BY MULTIPLYING THE CURRENT GAIN TIMES THE	VOLTAGE GAIN (AP = AI X AV)	AIN 2 TRANSISTORS - PERFORM MATCHING THROUGH THE USE OF CRECERY TRACING	TRANSISTOR AMPLIFIERS	3 TRANSISTOR AMPLIFIERS -	A 3 TRANSISTOR AMPLIFIERS - ALIGN OR ADJUST	COMPONENT	T 3 TRANSISTOR AMPLIFIEDS - REHOVE OR REPLAC	AMPLIFIED AMPLIFIED A TRANCISTOR AMPLIFIEDS - DEMOVE OUR DEDLACE CIDE. IT	COMPONENTS APPLIES A MERCAL ON APPLIAGE CLAND	419 3 TRANSISTOR AMPLIFIEDS - USE OR REFER TO CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM CHANGE IN BASE CURRENT	STOR AMPLIFIEDS - USE OR REFER TO THE CALRY TO MEASURE THE SPECIFIC CHANGE IN COLL	CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT	421 3 TRANSISTOR AMPLIFIERS - USE OR REFER TO THE CHANGE IN COLLECTOR VOLTAGE EHICH RESOLTS FROM A CHANGE IN BASE CURRENT	#22 3 TRANSISTOR AMPLIFIEDS - USE OR REFER TO THE CHANGE IN	Λα	EXECT AND CLASS FROM A SPECIFIC LAPET SIGNAL
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r G	454		7	^	•	60	12	7	
		ANALYSIS IN YOUR CIRCUIT ANALYSIS (REQUIRES PLOTIING A LOAD-LINE ON A TRANSISTON CHARACTERISTIC CURVE)							
13	425	3 TRANSISTOR AMPLIFIERS - USE OF REFER TO THE OPERATING	₽ ₹	1.8	10	۵	5.0	1.1	
		OINT O (GUIESCENT POINT) FOR A TRANSISTO							ı
	426	3 TRANSISTOR AMPLIFIERS - MEASURE VOLTAGE GAIN	*	32	36	25	a:	3 6	
	27	AMPLIFIERS - MEASURE	42	23	25	17	37	15	
٠	# 2 B	AMPLIFIERS - MEASURE POWER GAIN	27	16	28	11	37	54	
	624		#	13	*	₩	1,	13	
		MAINTER VOLTAGE INTO THE CHANGE OF THE BASE COLLECTOR							
u)	4 30	3 TRANSISTOR AMPLIFIERS - IDENTIFY ON SCHEMATIC DIAGRAMS,	2.1	2.1	21	17	20	5	
		EXILE TROUBLESHOOTING THE COMPONENTS ASSOCIATED KITH							
g	431	KALLICA (SEPARTES) RESIDENT VIBBLILEBILON 3 HORNSINTON ARDLIFIERS - HORNING OR SCHERALIC DIAGRANS.	20	6	22	1.7	42	4	
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ی	433	DENTIFY ON	22	55	55	.10	€	1.0	
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	437	3 TRANSISTOR AMPLIFIERS - IDENTIFY FREQUENCY DISTORTION	54	23	97	33	#	20	
ر د	438	- IDENTIFY PHASE DI	21	21	25	۲ . ۳	3	8	
	٠ •	STRENGISTON AMPLIFICAS - MEED TO KNOW THE DEGENERATIVE	8 0	97	17	-	8.7	2	
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- ق	0 .	æ	8.7	19	17	80	28	17	
		IN ORDER TO TROUBLESHOOT CIRCUITS							
	-1 # 3	3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR	56	2.1	54	60	7.	5.6	
5	244	AMPLIFIERS - TROUBLESHOOT	34	34	₩. M	52	25	52	
	443	- TROUBLESHOOT OR	20	.	10	25	₩,7	3.8	
		CIRCUITS							
,,	3 3 3	3 TRANSISTOR AMPLIFIEDS - TROUBLESHOOT OR REPAIR COMPOUNT-	50	2.1	c T	5	34	9 1	
ď	3 3	CONNECTED 3 TRANSTATOR AMPLIFITERS - TROUBLESCHOOT OR REPAIR CASCADE.	11			1.1	1	2.8	
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PCI MBRS RESP. YES - 303XZ DAFSC/CONUS/OF GRPS

Name				SOLID-STATE SPECIAL DEVICES	# -	í	1
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ALL. SPC SPC SPC STRIPLERS) RS - TROUBLESHOOT OR REPAIR VOLTAGE RS - TROUBLESHOOT OR REPAIR WIDEBAND RS - TROUBLESHOOT OR REPAIR MIDEBAND RS - TROUBLESHOOT OR REPAIR PURH-PULL RS - TROUBLESHOOT OR REPAIR PARAPHASE RS - TROUBLESHOOT OR REPAIR RS - TROUBLESHOOT OR REFAIR RS - TROUBLESHOOT OR REPAIR RS - TROUBLESHOOT OR REPER TO RS - TROUBLESHOOT OR REPER TO ROURPOSE DEVICES - USE OR REFER TO PURPOSE DEVICES - USE OR RE	SKI. SPC G17	. m mm	32 33 34 21 24 31 32 34 34 34 34 34 34 34 34 34 34 34 34 34	35 35	2 0 5 M	41 60 18	a ' 6
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DY-TSK RS - TROUBLESHOOT OR REPAIR VOLTAGE SYTRIPLERS) RS - TROUBLESHOOT OR REPAIR WIDEBAND RS - TROUBLESHOOT OR REPAIR WIDEBAND RS - TROUBLESHOOT OR REPAIR PUSH-PULL RS - TROUBLESHOOT OR REPAIR PUSH-PULL RS - TROUBLESHOOT OR REPAIR PUSH-PULL RS - TROUBLESHOOT OR REPAIR RS - TROUBLESHOOT OR REPER TO PURPOSE DEVICES - USE OR REFER TO	ALI. SPC 014	3 B B B B B B B B B B B B B B B B B B B	3 3 3 5 6 4 3 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	37 30	(n − (n − (n − n − n − n − n − n − n − n	# @ F 4	∞ ∞
TASK CROUDE C C C C C C C C C	GROUP SUMMARY LNT MEMBERS PERFORMING	446 3 IRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR MULTIPLIERS (DOUBLERS/TRIPLERS) 447 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 448 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR (VIDEO)	449 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR OR POWER 05 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 05 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 05 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 05 3 TCANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 05 3 TCANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 05 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 06 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 06 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 06 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR 1856 3 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR	#\$7 2 TRANSISTOR AMPLIFIERS - TROUBLESHOOT OR REPAIR #58 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR PR #59 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR PR TUNNEL DIUDES #66 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR PR FIRM PERFOT TRANSISTOR LEET	#61 1 SOLIO-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO UNJUNCTION TRANSISTORS #62 1 SOLIO-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO #63 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO INTEGRATED CIRCUITS #64 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO DIODES	*65 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO *E.D.S./LCDS./LCDS. *66 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO FANTALL TRANSISTORS *67 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO SILIÇON CONTROL RECTIFICERS (SCRS) *68 1 SOLID-STATE SPECIAL PURPOSE DEVICES - USE OR REFER TO TENANCE.	#69 1 #70 1 #71 1

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING DY-ISK	472 2 PONER SUPPLIES - 473 2 PONER SUPPLIES - 474 2 PONER SUPPLIES - 475 2 PONER SUPPLIES -	2 POWER SUPPLIES - TRUBLESH 2 POWER SUPPLIES - TRUBLESH 2 POWER SUPPLIES - REWOVE OR 2 POWER SUPPLIES - REWOVE OR 2 POWER SUPPLIES - NORK WITH 2 POWER SUPPLIES - NORK WITH THAN MOTORF	H 483 2 POWER SUPPLIES - RECTIFIERS - WORK WITH BRIDGE H 484 2 POWER SUPPLIES - RECTIFIERS - WORK WITH THREE PHASE H 485 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO INPUT VOLTAGE H 486 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO INPUT	FREGUENCY H 487 2 POWER SUPPLIES - RECTIFIERS - USE GR RE VOLTAGE H 488 2 POWER SUPPLIES - RECTIFIERS - USE CP RE OUTPUT VOLTAGE H 489 2 POWER SUPPLIES - OFFITFIERS - USE SO PE	AMPLITUDE 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO KIPPL 2 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO PEAK REVERBE TINVERSE) VOLTAGE 3 POWER SUPPLIES - RECTIFIERS - USE OR REFER TO SHAPE	493 2 POWER SUPPLIES - RECTIFIERS - USE GR OUTPUT VOLTAGE 494 2 POWER SUPPLIES - FILTERS - WORK HITH EMPLOY CAPACITIVE FILTERS 495 2 POWER SUPPLIES - FILTERS - WORK HITH FEMPLOY INDUCTIVE FILTERS - WORK HITH	H 496 Z POWER SUPPLIES - MORK WITH CIRCUITS WHICH EMPLOY CAPACITY INPUT L-TYPE FILTERS H 497 Z POWER SUPPLIES - FILTERS - WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE INFULENCES - WORK WITH CIRCUITS WHICH EMPLOYS LC PI-TYPE FILTERS - WORK WITH CIRCUITS WHICH EMPLOYS LC PI-TYPE FILTERS - WORK WITH CIRCUITS WHICH EMPLOYS C PI-TYPE FILTERS - WORK WITH CIRCUITS WHICH EMPLOY C DI-TYPE FILTERS - WORK WITH CIRCUITS WHICH EMPLOY C DI-TYPE FILTERS - HAVE THE OPTICY OF PEPLACING ONE TYPE OF FILTER - HAVE THE CONTICY OF PEPLACING IN 501 Z POWER SUPPLIES - WOWN WITH RESULATER CIPCUITS

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PCT MBRS RESP "YES"- 303XZ DAFSC/CONUS/OS GRPS

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING OY-ISK	502 3 OSCILLATORS - MORN WITH 503 3 OSCILLATORS - INSPECT 504 3 OSCILLATORS - ALIGN OR ADJUST 505 3 OSCILLATORS - REMOVE OR REPLACE 505 3 OSCILLATORS - REMOVE OR REPLACE 507 3 OSCILLATORS - TROUBLESFOOT TO CIRCUIT	508 3 05CILLATORS 509 3 05CILLATORS 510 3 05CILLATORS 510 3 05CILLATORS 511 3 05CILLATORS 513 3 05CILLATORS 513 3 05CILLATORS 513 3 05CILLATORS 514 3 05CILLATORS	SIS 3 OSCILLATORS - FREQUENCY DETERMINING DEVICES (FDC) MITH OSCILLATORS WHICH CONTAIN DC TANK CIRCUITS SIG. 3 OSCILLATORS - FREQUENCY DETERMINING DEVICES (FDC) MITH OSCILLATORS WHICH CONTAIN RC NETWORKS SIT 3 OSCILLATORS WHICH COSCILLATORS MHICH CONTAIN CRYSTALS SIG. 100PS 1	1 17 OSCILLATORS - FREUENCY DELEGRIADES DE CONTAINS DE	A 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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PCT MBRS RESP "YES"+ 303X? DAFSC/CONUS/OS GRPS

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TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING		DY-T5K	1 MULTIVIERATORS - TROUBLESHOOT TO CIRCUIT	538 1 MULTIVIBRATORS - TROUBLESHO	S - REMOVE	ALTERNATIONS - APROPRIOR CARACTERS (1900) - COMPONENT CARACTERS (1900) - C	LC TANK CIRCUITS			FREQUENCY DETERMINING DEVICES (FDD)	HULTIVIBRATORS - FREQUE	TO PART TANDER MAINTAIN TANDER TANDER TO PART TANDER TANDE	TONOR HILL HOND - SOUNDENT THE TONOR IN THE	7 1 MULTIVIBRATORS - WORK WITH BISTABLE (FLIP)	B 2 LIMITERS - CLAMPERS - 408M WITH	1 549 2 LIMITERS - CLAMPERS - MORK WITH SERIES DIODE LIMITERS	551 2 LIMITERS - CLAMPERS - MORK WITH	2 LIMITERS - CLAMPERS - HORK WITH ZENER DIODE LIMI	53 2 LIMITERS - CLAMPERS - HORK WITH	54 2 LIMITERS - CLAMPERS - WORK WITH TRIODE LIMITERS	I 555 2 LIMITERS - CLAMPERS - MORK WITH BASIC DIODE CLAMPING	LIMITE	CIRCUITS	A SAME A REPUBLICANT TIMES - MANY MALIN OF RESIDENCE CONTAINS	BASIC ELECTRON TUBES	LECTRON TUBES - CHEC	3 ELECTRON TUBES - USE	ELECTRON TUBES -	3 ELECTRON TUBES - USE	3 ELECTRON TUBES - USE OF REFER TO CUTOF	ELECTRON TUBES - USE OR REFER TO PEA	3 ELECTRON TUBES - USE OF REFER TO	7 3 ELECTRON TUBES - USE OR REFER TO TRANSIT TIME	- USE OR REFER TO	3 ELECTRON TUBES - USE OF REFER TO	3 ELECTRON TUBES - USE OR REFER TO DC PLI	3 ELECTRON TUBES - USE OR REFER TO	REFER TO PLAT	SELECTION TUBES - USE OR REFER TO

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TASK GROUP SUMMARY Percent Hembers Performing	0 V-75 W	- USE OR REFER TO CATHODE	A FIRETON TUBES - USE OF HEIRN (O	578 3 ELECTRON TUBES - USE OR REFER TO	FACTOR	TUBES - USE OR REFER TO	PENTODE ETC.) AMPLIFICATION FACTO	THE CONTRACT OF SECTION OF SECTIO	A 361 S ELECTION TORES - USE OF REPER TO THE PARAMETER CALLED AC		CAPACITANCE	TUBES - USE OR REFER TO CHARACTERISTIC CUP	SOM SELECTION FUNCS - USE ON NEITH SPECIFIC RIPS		SPECIFIED BIAS	MELECTROPIC TUBES - USE ON APPRENT TO BELLS	USE ON METER TO BIAS MEDUINED	ELECTRON TUBES - USE	3 ELECTRON TUBES - USE OR REFER TO EFF	3 ELECTRON TUBES - USE MULTIMETERS	AMPLIFIER GAIN	AMPLIFIER GAIN	I 592 3 ELECTRON TUBES - USE CHARACTERISTICS CURVES TO DETERMINE	GALIN Galin	594 3 ELECTPON TUBES	3 ELECTRON TUBES - USE OR REFER TO	MATERIAL SUCH AS MANUALS OR CHARTS I 596 3 ELECTROM TUBES - USF OR REFER TO ELECTRON TUBE CLODES	I ELECTRON TUBE AMPLIFIERS O	J 598 I ELECTRON TUBE AMPLIFIERS OR CIRCUITS - DETERMINE THE	CIRCUITS	HASE AMPLIF	J 600 1 ELECTRON TUBE AMPLIFIERS OR CIRCUITS - TROUBLESHOOT OR	J 601 1 ELECTRON TUBE AMPLIFIERS ON CIRCUITS - TROUBLESHOOT OR	REPAIR COMPOUND-CONNECTED AMPLIFIERS	J 602 I ELECTRON TUBE AMPLIFIERS OR CIRCUITS - TROUBLESHOOT OR Repair cascade-comnected amplifiers	60	
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	PERC	TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING	;	5	7			10.7		
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	¥ 956	THE TRANSHIT OR RECEIVE SYSTEMS - PERFORM TASKS ON DRIVERS	20	25	14	∞,	56	52		
	x 657	LINTERNECULARE ANTLITERS) 2 FM TRANSMIT OR RECEIVE SYSTEMS - PERFORM TASKS ON POWER AMBITTEDS.	20	25	13	œ	56	5.5		
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TASK BROUP SUMMARY PERCENT MEMBERS PERFORMING

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PERCENT MEMBERS PERFORMING		NST-YG		L TOB 1 LOGIC FUNCTIONS - USE OF REFER TO FLIP-FLOP MULTI-		L 710 1 LOGIC FUNCTIONS - USE OR REFER TO FLIP-FLOP CIRCUIT OR	SCHEMALL DIABRAMS L 711 1 LOGIC FUNCTIONS - USE OR REFER TO OME-SHOT CIRCUIT OR	IIC DIAGRAMS FUNCTIONS - USE OR REFER TO FLIP-FLOP IR	713 1 LOGIC FUNCTIONS - USE ON REFER TO	L 714 1 LOGIC FUNCTIONS - USE OR REFER TO COMPLEMENTING FLIP-FLOP	L 715 1 LOGIC FUNCTIONS - USE OR REFER TO MONCOMPLEMENTED FLIP-	1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR	20	719 1 LOGIC FUNCTIONS -	TRACE DATA FLOW THROUGH COMP	TRACE DATA	ING FLIX-FLOD SCHEWATIC DIAGRAMS	ING FLIP-FLOP SCHEM	L 723 1 LOGIC FUNCTIONS - CONSTRUCT TRUTH TABLES FOR J-M FLIP-	EQUATIONS, LOGIC DIAGRAMS, OF LOGIC FIRETIES	CTL) CTS	S - CON	L 727 2 BOOLEAN EQUATIONS - DRAN LOGIC DIAGRAMS FROM GIVEN	L 728 2 BOOLEAN EQUATIONS - MEASURE INPUTS OR OUTPUTS OF LOGIC	L 729 2 BOOLEAN EQUATIONS - DEVELOP OR ANALYZE BOOLEAN EQUATIONS The profession from the control of the control	N EQUATIONS	ONS - USE		TOUR LUGIL ICHLI LEGUATIONS - USE ING OF MORE THAN O

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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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TASK SROUP SUMMARY PERCENT MEMBERS PERFORMING DY-TSK L 734 Z BOOLEAN EQUATIONS - COMPUTE SUM AND CARRY EXPRESSIONS FOR SERTAL MALF OR FULL ADDER LOGIC DIAGRAMS L 735 Z BOOLEAN EQUATIONS - TRACE DATA FLOW THROUGH PARALLEL FINIL ADDER LOGIC DIAGRAMS	COUNTERS S COUNTERS S	UP-COUNTERS L 748 3 COUNTERS - TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF DOWN-COUNTERS - TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF UP-DOWN COUNTERS L 759 3 COUNTERS TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF DECADE COUNTERS L 751 3 COUNTERS - TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF RING COUNTERS - TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF L 752 3 COUNTERS - FRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF L 753 3 COUNTERS - TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF L 753 3 COUNTERS - TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF L 753 3 COUNTERS - TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF L 754 3 COUNTERS - TRACE DATA FLOW THROUGH LOSIC DIAGRAMS OF	ALEPS AUCT FRUTH TABLES F ALME THE STATE OF E MELLIS INPUT PULSES THEORY MITH TRAPEZO MORK WITH PULSES MORK WITH PULSES MORK WITH PULSES MORK WITH PULSES MORK WITH PULSES MORK WITH PULSES MORK WITH PULSES MORK WITH TRAPEZO MORK

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	TASK	TASK GROUP SUMMARY Percent members performing		2	7	6		20	
	f	N21-YQ	SPC 014	SPC 016	SPC C17	SPC 022	58C 025	SPC SPC 026	
	H 767	T I TIMING CINCUITS - USE OR REFER TO PHYSICAL LENGTH OF	5.7	6.0	55	20	63	ۍ ب	
	и 768	STRUCKUS CHOCKES	61	63	5.8	5.8	89	6.2	-
- 1	H 769	SABIOUTH BAVEFORMS 1 IIMING CIRCUITS - USE OR REFER TO GAIE LENGTH OF SABICUTH BAVEFORMS	m. Vo	9	65	8	7.	59	
	177 H	~~	6.0	2.7	63	\$0 \$0	75	22	USE OF SIGNAL GENERATORS
		USING 2 SIGNAL GENERATORS - P	\$ 25	57	. 4	25	09	2 9	
	H 77	3 2 SIGNAL GENERATORS - T		. - 7		52	0	52	
	# 774	SUBASSEMBLY WHILE USIN 2 SIGNAL GENERATORS - T	7	# ™	3.8	2.5	₩. #	#	
	H 775	REPLACEABLE COMPONENT WHILE USING 5. 2 STGWAL GENERATORS - USE AUDIO SINE-WAVE GENERATORS	~	1	16	33	1.1	0	
	X 776	2 SIGNAL GENERATORS	21	<u></u>	7.7	2	8	11	
	777 H	GENERATORS SUCH AS SQUARE MAVE, TRIANGLE, PULSE, OR SPIKE 7 2 SIGNAL GENERATORS - USE RF GENERATORS LESS THAN 1,000 MH	₽	t.	3 3	4.2	5.1	t 2	
	N 778	2 SIGNAL GENERATORS		99	5.1	2 C	9	56	
	H 779	Z SIGNAL GENERATORS - U	٢	4	•00	0	c	٥	
,		2 SIGNAL GENERATORS - USE	2	.	11	17	23	-	
	# 781 783	2 SIGNAL GENERATORS - U	٠. ٢	چ و	ر م د	۵ د	17	₹	
		3 2 SIGNAL GENERATORS - USE	0	m T	36	42	n us.	7 M 12 T	
	187	MULTI-FUNCTION GENERATORS * 3 MOTORK/SEWERATORS - PERFORM TASK DEALING WITH AC OR OC	(3	8,4	5	13	8.4	8.9	MOTORS AND GENERATORS
1	- 1	\$&010#	} !:	; ;	3 1	;	3	?	
	786 786	3 MOTORS - CLEAN	56	e 0	0 3 0 10	25	0 40 C 60	0 0	
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		3 MOTORS - PERFORM ANY TASKS ON FIELD COILS	22		17	3 0		* * *	
	# 793	W W MOTORS - PERFORM ANY TASKS ON ARMATURES	25	28	25	52	¥.	28	
		W HOTORS - PENFORM ANY TASKS ON		1 1	7 BS	; <u>:</u>	, Z+	. C.	
_	- 1	3 MOTORS - PERFORM ANY TASKS ON		7,	35	25	5	3 ; 3 ;	
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	7	3 MOTORS - DETERMINE OF HEASURE FORCE OF TORGUE) -		٥	.	<u> </u>	3.5	
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TASK GROUP SUMMARY	C K 3 O L 3 L		
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0	891	2 PULSE HODULATION SYSTEMS - MOPK ON PULSE-DURATION	53	30	82	8.0	31	30	
0	892	A POLICE FOR FOUR SYSTEMS - WORK ON PULSE-POSITION MAD LIATTON (DDM)	19	22	16	42	50	2.1	
0	893	2 PULSE MODULATION SYSTEMS - WORK ON PULSE-CODE HODULATION	26	5.	21	42	0.4	56	
0	**	PULSE MODULATION SYSTEMS - WORK ON LINE PULSING	12	13	11	52	2.0	11	
0	895	TOUCHER LOOKED AN SYSTEMS - DON'T KNOW TYPE OF MODULATION	13	17	0	0	20	16	
0	966	2 PULE F WUNDED ON SYSTEMS - WORK ON TIME DIVISION HALL TIPLEXING (TOW)	7	6	•	52 ;	** *:	σο	1
•	108	2 PULSE HODULATION SYSTEMS - PERFORM TASKS ON POLER	51	56	97	45	63	3.4	
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